

ABSTRACT OF THE DISCLOSURE

The present invention relates to recombinantly modified enzymes, which exhibit increased NAD(H) affinity compared to a unmodified or wildtype enzyme, gene sequences or polynucleotides that code for the recombinantly modified enzymes, plasmids and
5 microorganisms that contain these gene sequences; as well as, methods of making and methods of using the enzymes of the present invention.

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